Blues Deluxe™ Reissue

(This is the model name for warranty claims)

p/n 2232200000 (120V)

SERVICE MANUAL



CONTENTS:

Notices 2
Specifications 3
Service Notes 4
Circuit Description 5
Parts Lists:
PCB Assembly 6
Chassis Assembly.......................8
Cabinet Assembly 8
End Item Assembly 9
Footswitch Assembly 10
Service Diagram List 11

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Issued: July, 2005

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IMPORTANT NOTICE

• Parts marked with two asterisks (**) indicate the required use of that specific part. This is necessary for RELIABILITY and SAFETY requirements.
DO NOT USE A SUBSTITUTE!

PARTS LIST CODES

The description codes used in the itemized Parts Lists are defined below:

CAPACITOR CODES

CAP AE	=	Aluminum Electrolytic
CAP CA	=	Ceramic Axial
CAP CD	=	Ceramic Disk
CAP CR	=	Ceramic Radial
CAP MPF	=	Metalized Polyester Film
CAP MY	=	Mylar
CAP PFF	=	Polyester Film/Foil

RESISTOR CODES

RES CC	=	Carbon Comp
RES CF	=	Carbon Film
RES FP	=	Flame Proof
RES MF	=	Metal Film
RES MOX	=	Metal Oxide
RES WW	=	Wire Wound

HARDWARE CODES

BLX	=	Black Oxide
CR	=	Chrome Plated
HWH	=	Hex Washer Head
M	=	Machine Screw
NI	=	Nickel Plated
OHP	=	Oval Head Phillips
PB	=	Particle Board
PHP	=	Pan Head Phillips
PHPS	=	Pan Head Phillips Sems
SMA	=	Sheet Metal "A" Point
SMB	=	Sheet Metal "B" Point
SS	=	Stainless Steel
TF	=	Thread Forming
ZI	=	Zinc Plated

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SPECIFICATIONS

Model Name:		Blues Deluxe Reissue
Release Number: *(Not a model number)*		PR 658
Part Numbers	**(120V, 60Hz) US:**	2232200000
	(110V, 60Hz) TW:	2232201000
	(240V, 50Hz) AUS:	2232203000
	(230V, 50Hz) UK:	2232204000
	(230V, 50Hz) ARG:	2232205000
	(230V, 50Hz) EUR:	2232206000
	(100V, 50Hz) JPN:	2232207000
	(220V, 60Hz) ROK:	2232209000
Power Requirement:		180 W
Power Output:		40 W RMS into 8 or 4 ohms @ 5 %THD
Power Amp Sensitivity:		230mV for 40W into 8 or 4 ohms @ 5 %THD
Impedances	**Input (Pre-Amp):**	**INPUT1:** 34k ohms, **INPUT2** : 68kOhms
	Pre Amp Out:	1.5k ohms
	Pwr Amp In:	2.7k ohms
Speaker Complement:		Eminence 12", 8 ohm, (P/N 0994812002)
Dimensions	**Height:**	18.75 in (47.6 cm)
	Width:	23.5 in (59.7 cm)
	Depth:	10.5 in (26.7 cm)
Weight:		49.5 lbs (22.7 kg)

Product specifications are subject to change without notice

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SERVICE NOTES

1. **CHASSIS REMOVAL** is accomplished by first removing two (2) screws from each cabinet side panel and two (2) screws from the top of the cabinet. Disconnect the ¼" speaker plug(s) from the speaker jack(s) and then slide the chassis toward the rear of the cabinet.

2. **BLUES DELUXE REISSUE MAIN PCB REMOVAL** is accomplished by removing the following items: All Vacuum tubes, all knobs including washers and nuts (8), four (4) jacks, nuts and washers. Disconnect the transformer and primary leads at P1-P12, P15-18. Remove (1) chassis ground screw, six (6) screws at the standoffs attached from the bottom of the chassis.

3. **BLUES DELUXE REISSUE BREAKAWAY PCB REMOVAL** is accomplished by disconnecting wires from P13-14 and P19-20 then removing thirteen (13) screws which attach the vacuum tube PCB to the chassis from the bottom. Also unsolder gray wire from the external speaker jack and green wires at pilot lamp.

PCB EXCHANGE POLICY

Parts marked with a single asterisk (*) in the Part Lists are not field replaceable. If a failure due to one of these components is detected, please contact the FMIC Customer Service Department to order the complete PCB Assembly.

CIRCUIT DESCRIPTION

PRE-AMPLIFIER

The guitar signal is input to J1 for high gain and J2 for lower gain. When both inputs are used, both signals receive low gain. V1-A and V1-B provide two gain stages while R6 provides clean volume control. The tone stack, composed of R13,14,15 and associated components provide treble, bass and middle tone control respectively. V2-A provides gain lost in the tone stack. When the channel select switch is depressed, relays K1 and K2 are energized. This has the effect of disconnecting the volume control, thereby increasing the gain of the first stage while removing the short across R7, drive control, allowing it to control the amount that V2-A is overdriven. R26 is now in the circuit and is used to control the volume of the overdriven signal. The clean or distorted signals are input to opamp U1-A, employed as a unity gain buffer to develop the PREAMP out signal at J3. Opamps U2-A and U2-B function as reverb tank drive and recovery respectively. When an external signal is plugged into J4, POWER AMP IN, the internal pre-amp signal is diverted from the power amp and the external signal instead is fed to the reverb drive and the power amp.

POWER AMPLIFIER

R40 and R38 sum the signals from the preamp and the reverb tank and feed them into the power amplifier. V3-A and V3-B serve as phase splitters . which produce two out of phase signals for the purpose of driving V4 and V5 which act as a push-pull pair in a class A-B power amplifier. T1 matches the 6L6 plate impedance to the speaker load.

POWER SUPPLY

The line voltage is fed to T2's primary through the line fuse, F1, and the inrush current limiter, RT1. The input voltage is then stepped up or down as needed, rectified and filtered to produce the high X, Y, Z and B+ voltage for the tubes as well as the +/- 16V rails for the opamps. A 6.3VAC secondary powers the power indicator lamp and the tubes' heaters.

FOOTSWITCH INTERFACE

A two button footswitch (P/N 0994056000) is included for remote switching of the channels and reverb. When the VAC signal is clamped by either the internal (S2) or external (footswitch) diodes, a positive or a negative level that is being compared to a reference by comparators U3-A/B is changed, causing the comparator outputs to change state. U3-b senses the positive level change and energizes K1 and K2. U3-A senses the negative level change and turns on Q2 which mutes the reverb. U4-A and associated circuitry act as a zero crossing detector which mutes the preamp during channel changes.

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PARTS LIST: MAIN – PCB ASSEMBLY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
	REF	**PCB ASSY BLUES DELUXE REISSUE	
1	36621001	RES FILM 1W 5% 6.8k LL	R56
1	36470001	**RES MOX FP 1W 5% 10k LL	R75
2	36468001	**RES MOX FP 1W 5% 470ohm LL	R61-62
1	36469001	**RES MOX FP 1W 5% 4.7k LL	R74
1	33095001	**RES MOX FP 1W 5% 1ohm LL	R66
1	41269001	RES MOX 2W 5% 1.2kohm LL	R97
1	30936003	CAP PFF RDL .0022uF 50V 5%	C10
2	41256000	RES WW BT 5W 10% 470ohm	R78-79
1	38698001	CAP CA 47pF 100V	C15
1	38701001	CAP CA 470pF 50V LL	C13
5	51406003	CAP CD 220pF 500V 10%	C57-61
1	51458003	CAP CD 470pF 500V 10%	C23
1	20917000	CAP CD 250pF 1000V 10%	C7
1	20909000	CAP CD 47pF 1000V 10%	C28
1	25951000	CAP CD 750pF 1000V 10%	C53
4	25995000	CAP CD 8200pF 1000V 20%	C62-65
2	34788003	CAP CR .1uF 50V 20% .2" LS	C54-55
8	26730001	DIODE 1N4006 800V 1A	D3 D6-9 D11-12 D15
16	6260001	DIODE 1N4448 SIGNAL	D16-17 D19-32
2	29690001	DIODE HV 3kV 200mA	D4-5
2	31019001	DIODE ZEN 1N5245B 15V 5% LL	D1-2
2	28119060	DIODE ZEN 1N5353B 16V 5W 5%	D13-14
6	9512001	CAP AE AX 22uF 25V 20%	C1 C8 C14 C21 C50 C56
4	38689001	CAP AE AX .47uF 100V 20%	C12 C16 C19-20
1	28459003	CAP AE RDL 2.2uF 50V 20%	C47
3	24819000	**CAP AE AX 22uF 500V +50%-10%	C33,C35-36
1	24820000	**CAP AE AX 47uF 350V 20%	34
3	31040000	CAP AE RDL 100uF 100V 20%	C39 C42-43
2	28494000	CAP AE RDL 1000uF 35V 20%	C40-41
2	36954003	CAP AE RDL 22uF 63V 20%	C38 C45
21	25802000	FSTN TAB MALE .250x.032 PCB MT	P1-21
2	26368001	RES CF 1/2W 5% 100ohm LL	R80-81
4	25116001	RES CF 1/2W 5% 100k LL	R4 R11 R16 R58
1	24953001	RES CF 1/4W 5% 120 LL	R24
1	31065001	RES CF 1/2W 5% 91k LL	R57
3	51658000	JACK MONO R/A	J1-2 J5
2	59922000	JACK PHONE PCB STEREO PREMIUM LOW PROFILE	J3-4
1	28039000	LED RED 5x5mm SLB-55VR3	D18
1	27255003	CAP MPF .001uF 100V 10%	C22
1	27278003	CAP MPF .1uF 63V 10%	C29
2	27281003	CAP MPF .22uF 63V 10%	C4 C46
2	27272003	CAP MPF .047uF 63V 10%	C3 C9
2	27286003	CAP MPF .47uF 63V 10%	C17 C48
1	27262003	CAP MPF .0068uF 100V 10%	C52
1	24823000	CAP MPF RDL .01uF 400V 10%	C18
1	24853000	CAP MPF RDL .1uF 250V 10%	C25
2	24833000	CAP MPF RDL .022uF 400V 10%	C6 C24
1	24845000	CAP MPF RDL .047uF 400V 10%	C2
1	24854000	CAP MPF RDL .1uF 400V 10%	C5
2	24855000	CAP MPF RDL .1uF 630V 10%	C26-27
1	28503000	**THERMISTOR 10 ohm 5A C60-11	RT1
2	31901000	PIN MALE PCB .093 DIA.	SP1-2

* Non-serviceable part. Replace complete parent assembly. See PCB EXCHANGE POLICY above.

(shaded) Unique Fender® part. Order directly from the FMIC Customer Service Department.

** Safety Requirement part. Replacement must match *Safety Agency…–Value*, if specified –*Type*, if specified –*Approval Mark(s)* if on part.

(shaded) ** Both a unique Fender® part *and* a Safety Requirement part as defined above.

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PARTS LIST: MAIN – PCB ASSEMBLY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	37600000	CONTROL SNAPIN 100k B TAPER	R26
1	41507000	CONTROL SNAPIN 1M 10A TAPER	R14
2	41510000	CONTROL SNAPIN 25k B TAPER	R15 R39
1	47031000	CONTROL SNAPIN 25k 30C TAPER	R67
2	47540000	CONTROL SNAPIN 250k 15A TAPER	R6-7
1	37597000	CONTROL SNAPIN 250k 30A TAPER	R13
1	27873000	Pot, vertical trimpot, 15mm	R82
1	24937001	RES CF 1/4W 5% 10ohm LL	R63
2	24965001	RES CF 1/4W 5% 1k LL	R41 R85
7	24981001	RES CF 1/4W 5% 10k LL	R27 R43 R46 R90-91 R93-94
5	24997001	RES CF 1/4W 5% 100k LL	R12 R19 R30 R42 R77
9	25069001	RES CF 1/4W 5% 1M LL	R3 R28 R32 R53-54 R86-87 R89 R92
2	25084001	RES CF 1/4W 5% 10M LL	R20-21
1	28955001	RES CF 1/4W 5% 130k LL	R18
8	24969001	RES CF 1/4W 5% 1.5k LL	R5 R10 R17 R31 R64-65 R76 R103
1	24985001	RES CF 1/4W 5% 15k LL	R102
1	24999001	RES CF 1/4W 5% 150k LL	R9
1	24955001	RES CF 1/4W 5% 180ohm LL	R34
6	25059001	RES CF 1/4W 5% 220k LL	R8 R35-36 R40 R59-60
1	29450001	RES CF 1/4W 5% 240k LL	R52
3	24972001	RES CF 1/4W 5% 2.7k LL	R37 R49-50
1	24959001	RES CF 1/4W 5% 330ohm LL	R84
1	24960001	RES CF 1/4W 5% 390ohm LL	R104
1	24991001	RES CF 1/4W 5% 39k LL	R22
1	25828001	RES CF 1/4W 5% 430k LL	R38
1	24947001	RES CF 1/4W 5% 47ohm LL	R99
1	24961001	RES CF 1/4W 5% 470ohm LL	R55
3	24977001	RES CF 1/4W 5% 4.7k LL	R33 R68 R88
4	24993001	RES CF 1/4W 5% 47k LL	R29 R45 R51 R96
1	25065001	RES CF 1/4W 5% 470k LL	R95
2	28990001	RES CF 1/4W 5% 51k LL	R47-48
1	28018001	RES CF 1/4W 5% 510k LL	R44
3	24995001	RES CF 1/4W 5% 68k LL	R1-2 R69
1	26510001	RES CF 1/4W 5% 9.1k LL	R23
2	41465003	XSTR N-CH JFET J113 TO-92	Q1-2
2	REF	CABLE JMPR 2 CKT .156 ROUND	PW4A PW4B
6	REF	CABLE JMPR 6 CKT .156 ROUND	PW1A PW1B PW2A PW2B PW3A PW3B
2	36613000	RELAY DPDT DIP 24VOLT 8.3mA	K1-2
2	28091000	SWITCH PUSH SLFLK SHORT STROKE	S1-2
2	31611000	IC OP-AMP DUAL PC4560	U2-3
2	16795000	IC OP-AMP DUAL TL072	U1 U4
3	0994005000	TUBE 7025/12AX7A (CHINESE) FNDR GT	V1-3
2	0994001XXX	TUBE 6L6GC YL FNDR GT	V4-5

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PARTS LIST: CHASSIS ASSEMBLY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
	REF	CHASSIS ASSY BLUES DLX REISSUE	
0.09	REF	TUBING SHRINK 3/16 BLACK	FT
1	REF	LABEL GROUNDING SEMKO	EA
2	16352000	NUT HEX 3/8-32x3/32 TK NI(049)	EA
6	16440000	STNDOFF RND AL 6-32x1x1/4	EA
6	16444000	WASHER LOCK EXTERNAL #6 THIN C	EA
4	16473000	SCRW M 8-32x1/2 PHP ZI	EA
2	20424000	TUBE RING UNIVERSAL (277H-2)	EA
1	21550000	JACK PHONE TIP SHUNT 12A	EA
1	21642000	PILOT LIGHT #T47	EA
1	21741000	HOLDER IDAL LITE ASSY PIL	EA
8	22004000	NUT KEPS #8-32 ZINC	EA
1	22707000	CHOKE FILTER	EA
1	25718000	JEWEL PILOT LITE RED #20	EA
1	26038000	BUSHING SR .625x.062x37/64 BLK	EA
1	26116000	BUSHING SR .500x.063x7/16 BLK	EA
1	26541000	**CORD PWR ASSY W/.250 TAB 120V	EA
1	28069000	BUSHING SNAP 3/4x1-1/8 WHT	EA
21	31184000	SCRW M6-32x1/4 PHPS BLX ITLW	EA
1	31625000	NUT HOLDER PILOT LIGHT 1/	EA
1	32219000	COLLAR-PILOT LIGHT	EA
1	36570000	SWITCH TOGGLE DPST W/NUTS	EA
8	36620000	KNOB CHICKEN HEAD 1/4 SHFT (BLAC	EA
1	36702000	**FUSE HOLDER 3AG FINGER GRIP	EA
1	36958000	**XFMR PWR 120v HR DLX/VIBVB	EA
1	50438000	**XFMR AUDIO OUTPUT 40W	EA
1	37039000	SWITCH TOGGLE SPST W/NUTS	EA
4	38900000	SCRW TF 6-32X1/4 PHP ZI	EA
1	41701000	JACK PHONE TRANSFER 13A	EA
1	48356000	SHIELD SNAP-IN TUBE	EA
1	REF	WIRE SET CHS H/R DVL/DLX	EA
3	53479000	NUT HEX 7/16 20X1/8 NI	EA
1	65557000	PANEL TOP CHRM BLUES REISSUE	
3	53480000	WASHER FLAT .442 X.692 NI	EA

PARTS LIST: CABINET ASSEMBLY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
	041989000	CABINET ASSY BLUES DELUXE	
1	036618000	SCREW M 6-32 X 1/12 OHP BRONZE	
6	049563000	WASHER C'SINK #6 ANTQ BRONZE	
6	022327000	WASHER FLAT 8 X 7/16 NI	
	0041989003	GRILLE ASSY BLUES DELUXE	
5	036618000	SCREW BAFFLE	
6	069393000	NUT 6-32 HEX EXT LOCK	
2	041987000	STRIP BOTTOM BLUES DELUXE	
AR	036343000	TWEED COVERING	
AR	REF	TAPE ALUMINUM 7" X 60 TDS	
7"	REF	VELCRO STRIP HOOK 1.5" wd BLACK	
7"	REF	VELCRO STRIP LOOP 1.5" wd BLACK	

* Non-serviceable part. Replace complete parent assembly. See PCB EXCHANGE POLICY above.

(shaded) Unique Fender® part. Order directly from the FMIC Customer Service Department.

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PARTS LIST: CABINET ASSEMBLY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
4	026625000	SCREW WOOD 8 X 1 FH	
4	024653000	GLIDE CABINET NICKEL PLATED	
4	022483000	INSERT GLIDE CUSHION 1.02 DIA	
4	064162000	NUT T 8-32 X ½ STR 3 PRNG BLX	
4	037247000	SCREW M 8 -32 X 1 OHP NI	
1	036784000	HANDLE, MOLDED	

PARTS LIST: END ITEM ASSEMBLY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	2232200000	BLUES DELUXE REISSUE	
1	12582000	CLAMP CABLE NYL SCRW MNT 1/4	
6	15990000	SCRW M 10-32x3/4 THP NI	
2	26459000	WSHR FLAT 6x3/8 ZI	
1	28453000	PAD CARDBOARD REVERB #12FN86	
1	50394000	REVERB UNIT 4 SPRING 4EB3C1B	
1	31849000	REVERB BAG	
3	29828000	SCRW PB 8x3/4 PHP ZI	
6	36619000	SCREW M 10-32x1-1/2 THP NI	
0.002	36650000	PIN ESCUTCHEON #18x3/8 NI	
1	0994812002	SPKR 12" 8ohm 50W	
1	38566000	CABLE ASSY SPKR RT ANG 13-1/2"	
1	41989000	CAB ASSY HR /BLUES DLX TWEED	
1	47485000	COVER,BROWN BLUES/HR DLX	
4	47821000	SCRW M 10-32 3/4 THP STL BLX	
1	REF	LABEL TUBE BLUES DLX REISSUE	
1	65562000	MANUAL OWNERS BLUES DLX REISSUE	
1	0994056000	FTSW 2 BTN CH/RVB	
1	REF	LABEL CSA C/US	
1	REF	LABEL SERIAL B BLK ON CHRM	
1	REF	NAMEPLATE TWEED AMPS	
1	65558000	PANEL REAR BLUES DLX REISSUE	
4.5	REF	FOAM TAPE 1/4" 1/16 3M4516	
1	REF	TAG WARRANTY 5 YR FENDER-	
1	REF	HANG TAG GROOVE TUBE	
1	REF	REGISTRATION CARD	
1	59718000	STABILIZER TUBE HOT ROD	
1	REF	CHS ASSY BLUES DLX REISSUE 120V	
1	9906900590	CLAMP CABLE NYL ADHESIVE	

PARTS LIST: FOOTSWITCH ASSY

QTY.	PART #	DESCRIPTION	REFERENCE DESIGNATION
1	0994056000	FTSW 2 BTN CH/RVB	
1	*	NUT HEX 12mm X 1mm NI	
2	*	WSHR NYL 0.485 X 0.775 X 0.150 TK	
1	*	CABLE ASSY FTSW RT ANG 12' (N.S.)	
8	*	SCRW SMB 6 X 3/8 PH PHS BLX	
1	*	HSG END CUP RIGHT FTSW	
1	*	HSG END CUP LEFT FTSW	
1	*	TOP PLATE	
1	*	HSG FTSW 2 BUTTON	
1	*	PCB ASSSY FT SW 2 BUTTON	

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* Non-serviceable part. Replace complete parent assembly. See PCB EXCHANGE POLICY above.

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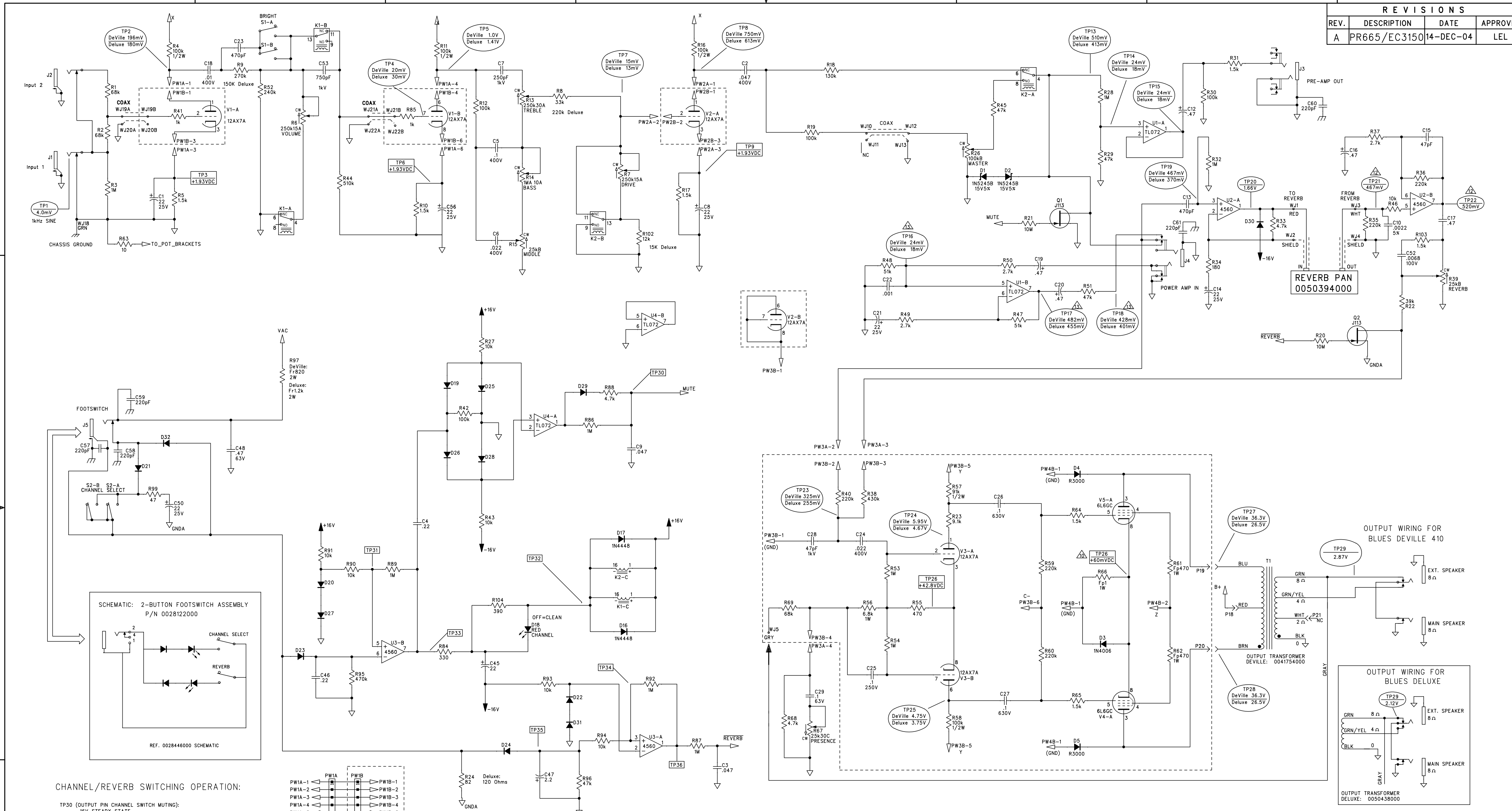
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Service Diagram List

Service Diagram (0065561000)............. Blues Deluxe Reissue
PCB Assembly (0065560000)............. Blues Deluxe Reissue
Chassis Assembly (0065552000)............. Blues Deluxe Reissue
End Item Assembly (2232200000)............. Blues Deluxe Reissue

REV.	DESCRIPTION	DATE	APPROVED
A	PR665/EC3150	14-DEC-04	LEL



CHANNEL/REVERB SWITCHING OPERATION:

TP30 (OUTPUT PIN CHANNEL SWITCH MUTING):
-16V STEADY STATE.
+16V PULSE DURING CHANNEL CHANGES

TP31 (REF. PIN, CHANNEL SELECT):
+1.39V NORMAL MODE.
+1.08V DRIVE MODE "RED"

TP32 (RELAY, CHANNEL SELECT):
-16.0V WITH CHANNEL SELECT IN.
+7.5V WITH CHANNEL SELECT OUT.

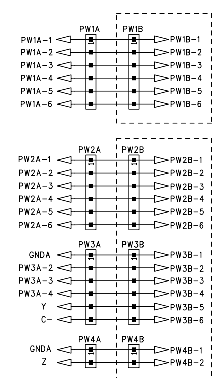
TP33 (OUTPUT PIN, CHANNEL SELECT):
-15.5V DRIVE MODE "RED".
+14.8V NORMAL MODE

TP34 (REF. PIN, REVERB ON/OFF):
-1.04 REVERB OFF
-1.38V REVERB ON

TP35 (INPUT PIN, REVRB ON/OFF):
WITH FOOTSWITCH---
0.3V REVERB OFF
-2.2 REVERB ON

TP36 (OUTPUT PIN, REVERB ON/OFF):
+16.6 REVERB OFF
-15.6V REVERB ON

NOTE:
THE FOOTSWITCH OVERRIDES
THE FRONT PANEL SWITCHES.



NOTES: (UNLESS OTHERWISE NOTED)

10. BIAS ADJUSTMENT - NO SIGNAL APPLIED, RATED LINE VOLTAGE AT T2 POWER TRANSFORMER PRIMARY. SET BIAS ADJUST POT R82 TO OBTAIN A READING OF +60mV AT TP47.

9. THE FOLLOWING ITEMS DIFFER IN VALUE BETWEEN THE DEVILLE AND DELUXE PCB ASSEMBLIES: C31, C33, R8, R9, R76, R78, R79, R97 and R102. ALSO, R71 AND R73 ARE STUFFED WITH WIRE JUMPERS IN THE DELUXE PCB ASSY.

8. THE FOLLOWING ITEMS ARE NOT STUFFED IN DEVILLE PCB ASSY 0065572000: W1, W2

7. THE FOLLOWING ITEMS ARE NOT STUFFED IN DELUXE PCB ASSY 0065560000: C32, C34, C37, D10, P17, P21, R70-R73, R83, W3, W4

6. THIS SCHEMATIC IS FOR THE FOLLOWING PCB ASSEMBLIES:
0065560000 PCB ASSY BLUES DELUXE REISSUE
0065573000 PCB ASSY BLUES DEVILLE REISSUE

5. THIS SCHEMATIC IS FOR PCB FABRICATION 0065559000

4. ALL DIODES ARE 1N4448 UNLESS OTHERWISE SPECIFIED.

3. ALL POLARIZED CAPACITORS IN uF, 20%; 50V MINIMUM.

2. ALL UNPOLARIZED CAPACITORS IN uF, 10% OR BETTER; 50V MINIMUM. (POWER SUPPLY BYPASS CAPACITORS ARE 20%).

1. ALL RESISTORS IN OHMS, 5%; 1/4W UNLESS OTHERWISE SPECIFIED.

16. ALL 10 -DIGIT NUMBERS ARE FENDER PART NUMBERS.

15. LAST REFERENCE DESIGNATORS USED: C65, D30, F1, J5, K2, P21, PW4, Q4, R106, RT1, S5, SP2, U3, V5, WJ18

14. CIRCUITS INSIDE DASHED BOXES ARE ON BREAKAWAYS.

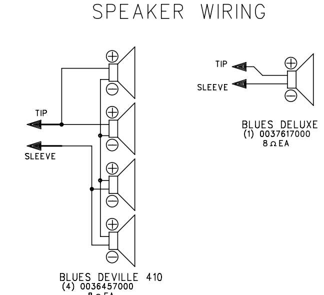
13. TP 16-18 WITH CABLE FROM J3 TO J4

12. READINGS OBSERVED AT TP21 AND TP22 WILL VARY GREATLY DEPENDING ON INDIVIDUAL REVERB PAN RESPONSE. THE VOLTAGE GAIN AT U2B SHOULD BE 82.

11. ALL VOLTAGES MEASURED WITH RESPECT TO GROUND USING A TRUE RMS DVM OF 1MΩ AC INPUT IMPEDANCE AND OF 10MΩ DC INPUT IMPEDANCE. VOLTAGES MAY VARY +/-20%. TEST CONDITIONS:
UNIT OPERATING AT RATED LINE VOLTAGE
ALL DC AND SUPPLY MEASUREMENTS MADE WITH NO INPUT SIGNAL.
REVERB CONTROL AT FULL CCW.
ALL OTHER CONTROLS AT 50% ROTATION.
BRIGHT SWITCH OUT.

BIAS SET TO 30mV PER OUTPUT TUBE. SEE NOTE 10.

SPEAKER WIRING



DELUXE OUTPUT TEST:

17.9 V RMS INTO AN 8Ω RESISTIVE LOAD, OR 12.6V RMS INTO A 4Ω RESISTIVE LOAD, AT 5% THD, WITH A 286mV 1kHz SIGNAL APPLIED AT J4. PRESENCE AND REVERB CONTROLS FULL CCW.

DEVILLE OUTPUT TEST:

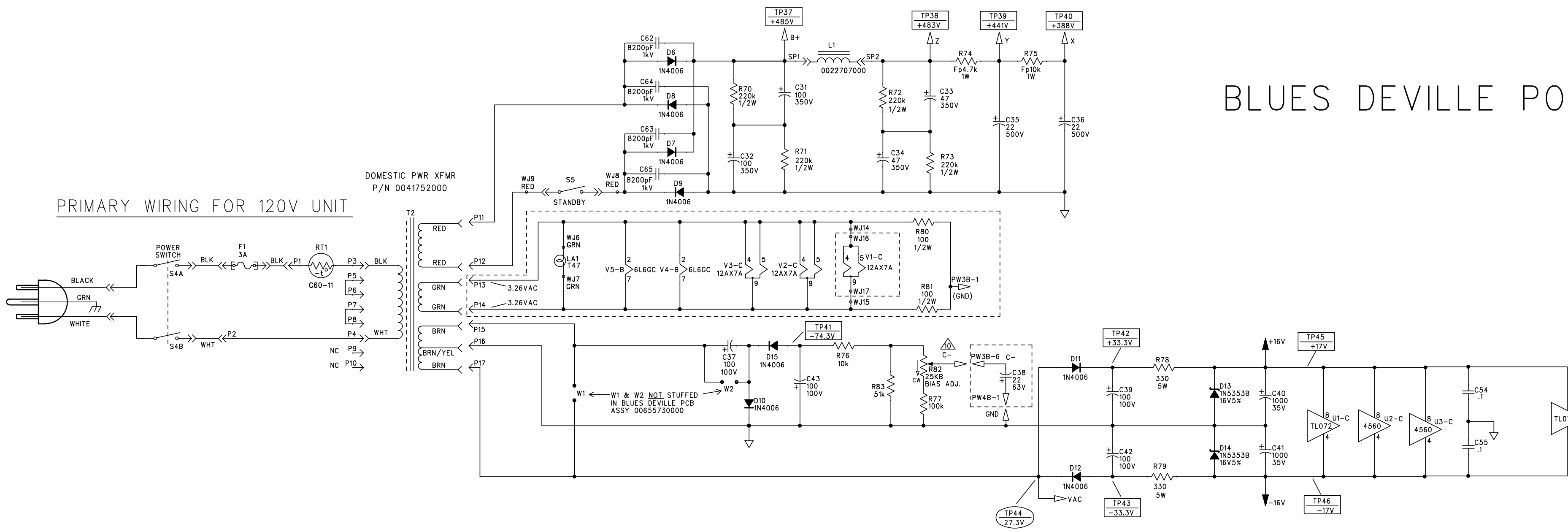
21.1V RMS INTO AN 8Ω RESISTIVE LOAD, OR 14.9V RMS INTO A 4Ω RESISTIVE LOAD, AT 5% THD, WITH A 286mV 1kHz SIGNAL APPLIED AT J4. PRESENCE AND REVERB CONTROLS FULL CCW.

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Corona, CA U.S.A.

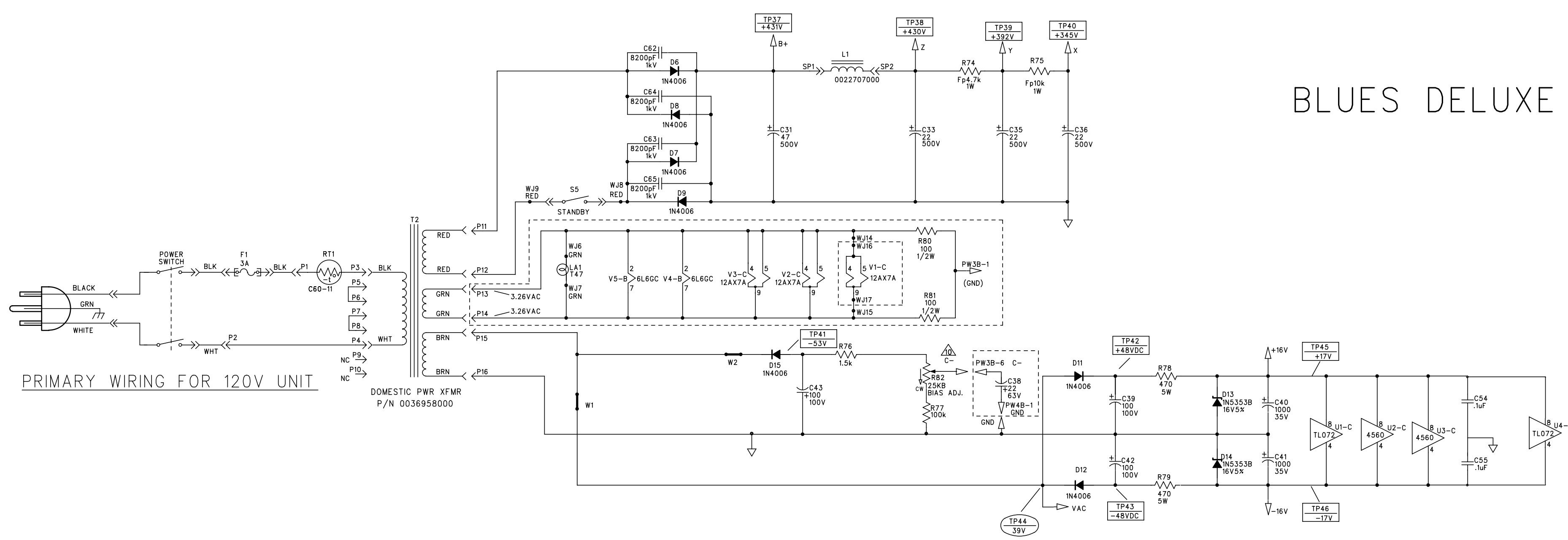
CHECKED BY:	TITLE: SERVICE DIAGRAM, COMBINED (schematic) BLUES DELUXE/DEVILLE REISSUE
DATE:	
APPROVED BY:	SIZE D
DATE:	DRAWING NUMBER 0065561000
DRAWN: L.Lorenzen	ENGR: L.Lorenzen
REV. A	
DATABASE FILE: Z665S.SCH	RELEASE DATE: 14-DEC-04
SHEET: 1 OF 4	

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR665/ED3150	14-DEC-04	LEL

BLUES DEVILLE POWER SUPPLY



BLUES DELUXE POWER SUPPLY



NOTES: SEE SHEET 1

Fender MUSICAL INSTRUMENTS
Corona, CA U.S.A.

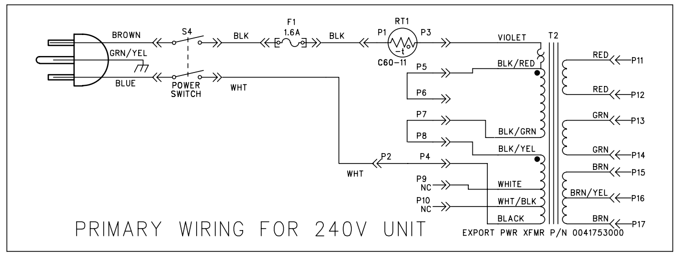
CHECKED BY:	DATE:
APPROVED BY:	DATE:
DRAWN: L.Lorenzen	ENGR: L. Lorenzen
DATABASE FILE: Z665S.SCH	

TITLE: SERVICE DIAGRAM, COMBINED (schematic) BLUES DELUXE/DEVILLE REISSUE

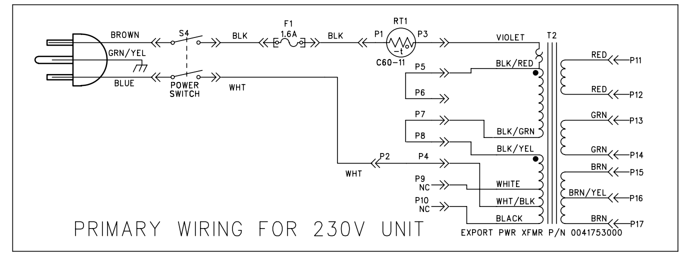
SIZE	DRAWING NUMBER	REV.
D	0065561000	A

RELEASE DATE: 14-DEC-04 SHEET: 2 OF 4

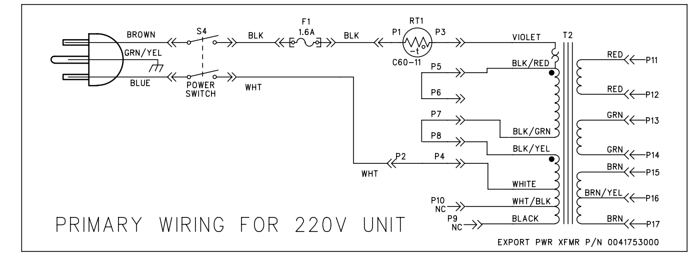
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR665/EC3150	14-DEC-04	LEL



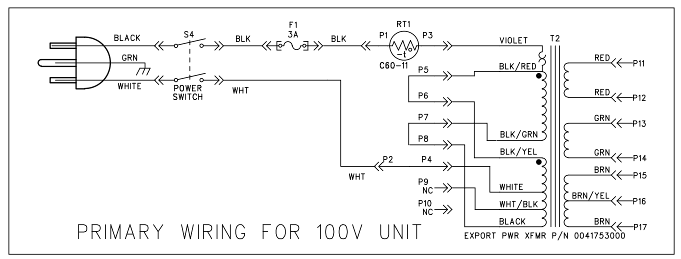
PRIMARY WIRING FOR 240V UNIT



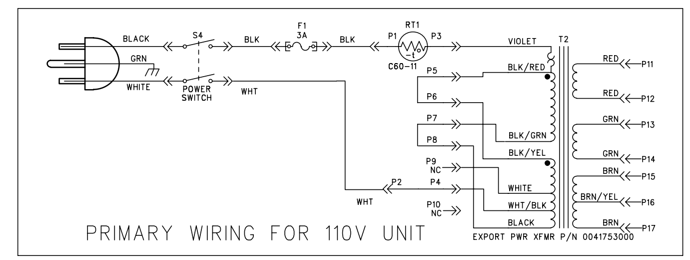
PRIMARY WIRING FOR 230V UNIT



PRIMARY WIRING FOR 220V UNIT

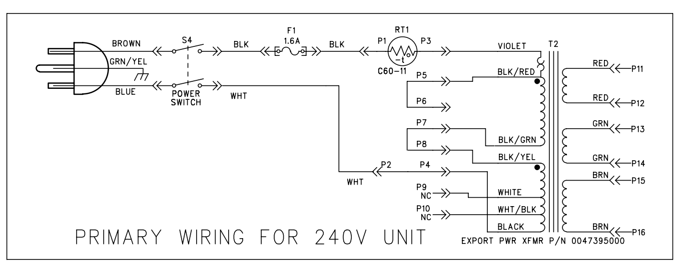


PRIMARY WIRING FOR 100V UNIT

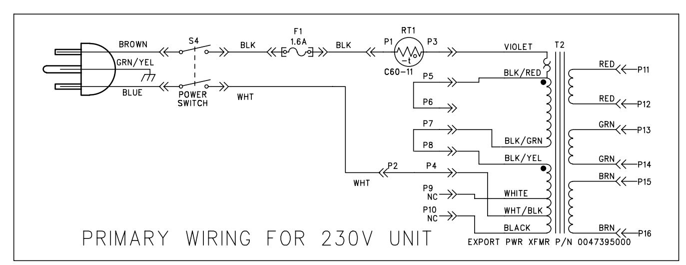


PRIMARY WIRING FOR 110V UNIT

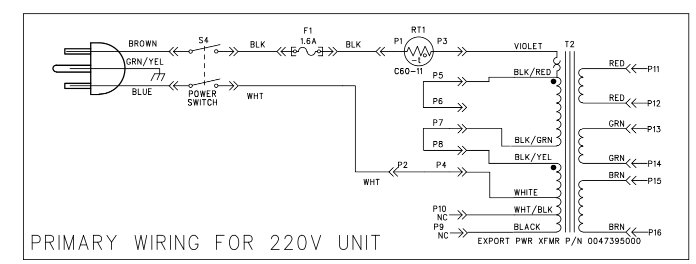
BLUES DEVILLE PRIMARY WIRING



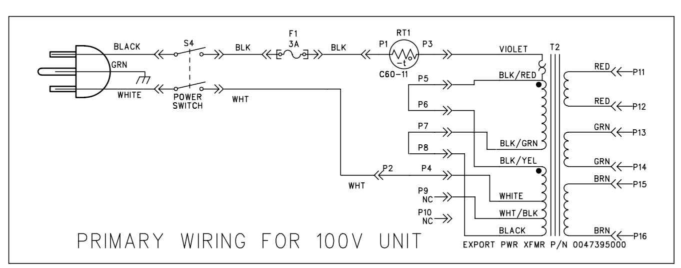
PRIMARY WIRING FOR 240V UNIT



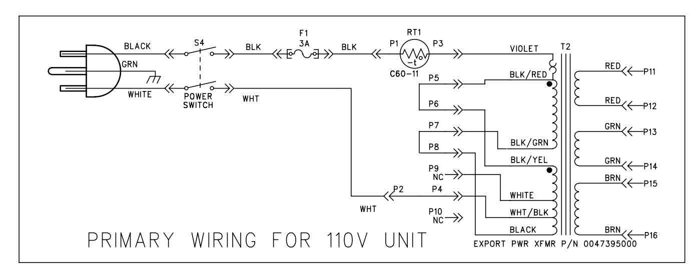
PRIMARY WIRING FOR 230V UNIT



PRIMARY WIRING FOR 220V UNIT



PRIMARY WIRING FOR 100V UNIT



PRIMARY WIRING FOR 110V UNIT

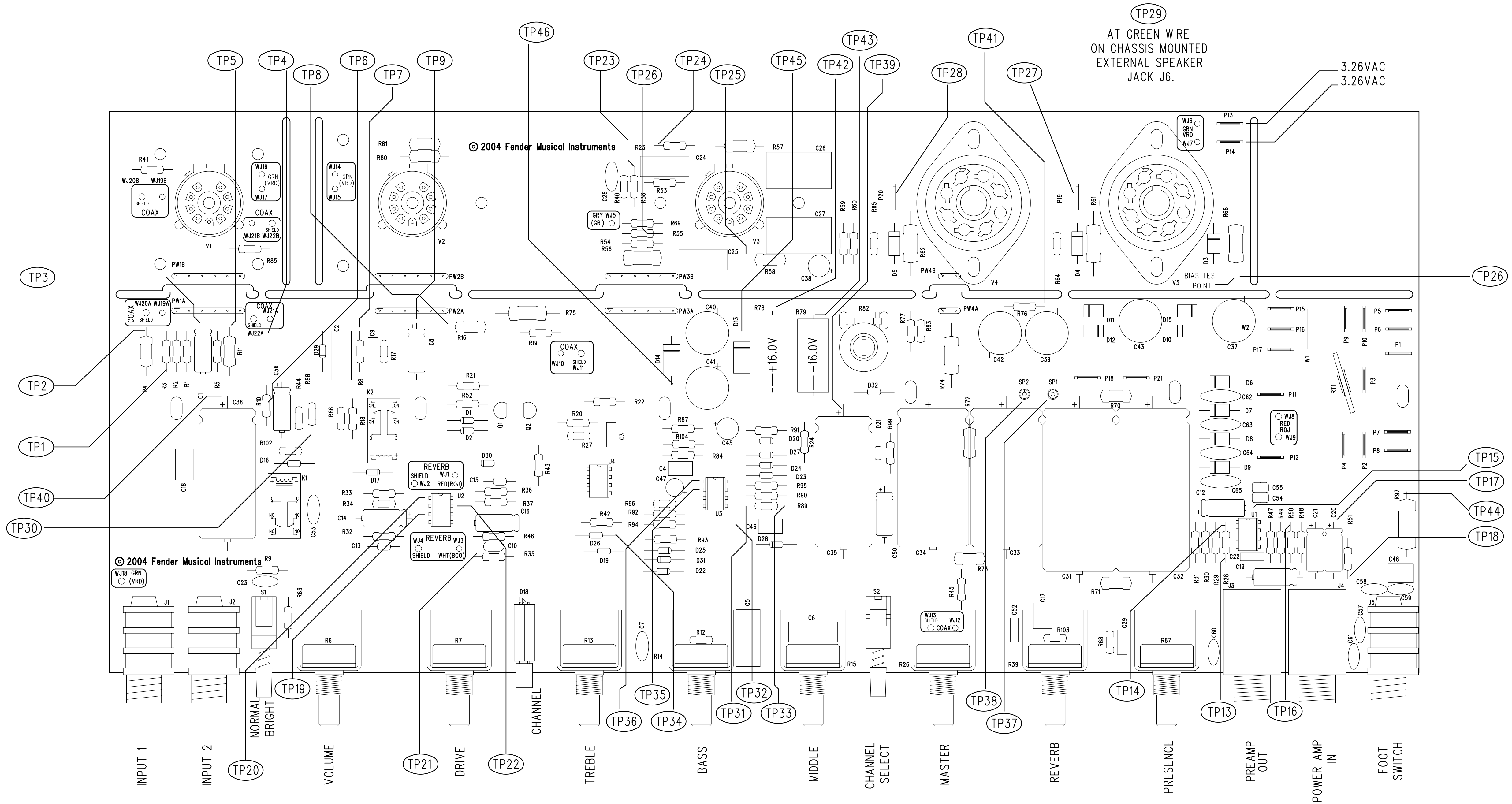
BLUES DELUXE PRIMARY WIRING

NOTES: SEE PAGE 1.

MUSICAL INSTRUMENTS
Corona, CA U.S.A.

CHECKED BY:	TITLE: SERVICE DIAGRAM, COMBINED (schematic)
DATE:	BLUES DELUXE/DEVILLE REISSUE
APPROVED BY:	SIZE D · DRAWING NUMBER 0065561000 · REV. A
DATE:	
DRAWN: LORENZEN · ENGR: LORENZEN	
DATABASE FILE: Z665S.SCH	RELEASE DATE: 14-DEC-04 · SHEET: 3 OF 4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PR665/EC3150	14-DEC-04	LEL



FILM/DWG:	SERVICE DIAGRAM	
DATABASE:	Z665P.PCB	DATE: 14-DEC-04

NOTES: (UNLESS OTHERWISE NOTED)

1. PCB SHOWN BEFORE POWER AMP BREAKAWAY IS INSTALLED IN CHASSIS
2. WIRES NOT SHOWN FOR CLARITY
3. SEE PAGE 1 FOR NOTES AND TEST CONDITIONS

Fender MUSICAL INSTRUMENTS
Corona, CA U.S.A.

CHECKED BY: ____________
DATE: ____________
APPROVED BY: ____________
DATE: ____________
DRAWN: L.LORENZEN ENGR: L.LORENZEN
DATABASE FILE: Z665P.PCB

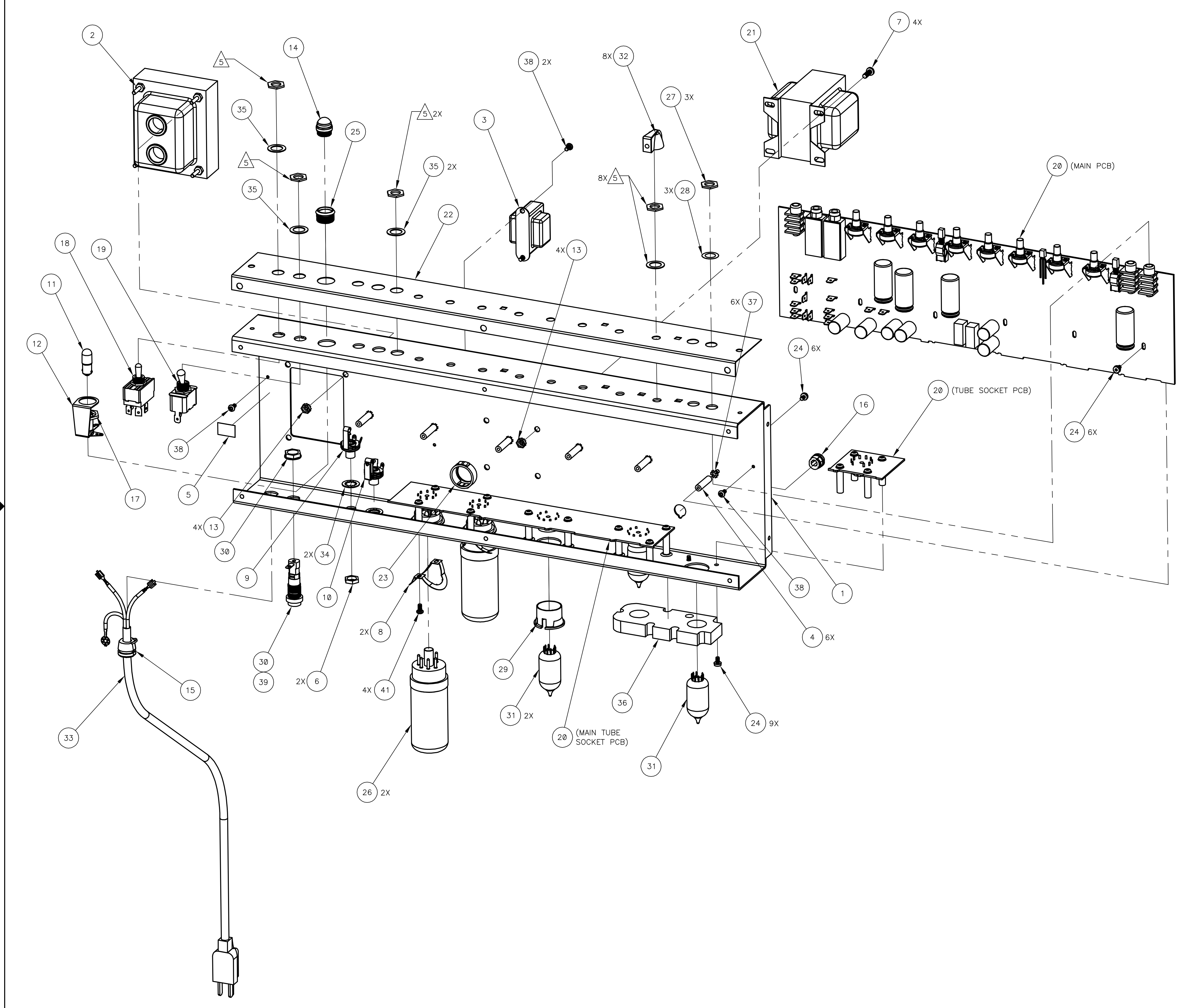
TITLE: SERVICE DIAGRAM, COMBINED (PCB assy)
BLUES DELUXE/DEVILLE REISSUE

SIZE: C | DRAWING NUMBER: 0065561000 | REV. A

RELEASE DATE: 14-DEC-04 | SHEET 4 OF 4

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REV	EC NUMBER	BY	DATE/ARCHIVE



SERVICE MANUAL DOCUMENT

1/17/2005

ITEM	QTY	DESCRIPTION
41	4	SCRW M 6-32x1/4 PHP BLX
40	1	
39	1	FUSE
38	4	SCRW TF 6-32X1/4 PHP ZI
37	6	WASHER LOCK EXTERNAL #6 THIN C
36	1	STABILIZER TUBE HOT ROD
35	4	WASHER FLAT .482x.709 NI
34	2	WASHER LCK INTL 3/8x.681x.032
33	1	CORD PWR ASSY
32	8	KNOB CHICKEN HEAD 1/4 SHFT BLK
31	3	TUBE 7025/12AX7A CHINESE
30	1	FUSE HOLDER
29	1	SHIELD SNAP-IN TUBE
28	3	WASHER FLAT .442 X.692 NI
27	3	NUT HEX 7/16 20X1/8 NI
26	2	TUBE 5881WXT/6L6WGC
25	1	COLLAR-PILOT LIGHT
24	21	SCRW M6-32x1/4 PHPS BLX ITLW
23	1	BUSHING SNAP 3/4x1-1/8 WHT
22	1	PANEL, TOP CHRM, BLUES DEVILLE/DELUXE REISSUE
21	1	XFMR AUDIO OUTPUT 40W
20	1	PCB ASSY BLUES DELUXE
19	1	SWITCH TOGGLE SPST W/NUTS
18	1	SWITCH TOGGLE DPST W/NUTS
17	1	NUT HOLDER PILOT LIGHT 1/16-27
16	1	BUSHING SR .500x.063x7/16 BLK
15	1	BUSHING SR .625x.062x37/64 BLK
14	1	JEWEL PILOT LITE RED #20
13	8	NUT KEPS #8-32 ZINC
12	1	HOLDER IDAL LITE ASSY PILOT
11	1	PILOT LIGHT #T47
10	1	JACK PHONE TRANSFER 13A
9	1	JACK PHONE TIP SHUNT 12A
8	2	TUBE RING UNIVERSAL (277H-2)
7	4	SCRW M 8-32x1/2 PHP ZI
6	2	NUT HEX 3/8-32x3/32 TK NI (049)
5	1	LABEL GROUNDING SEMKO
4	6	STNDOFF RND AL 6-32x1x1/4
3	1	CHOKE FILTER
2	1	XFMR PWR
1	1	CHS H/R DLX

FENDER MUSICAL INSTRUMENTS CORP.
CORONA, CALIFORNIA U.S.A.

DATE 10/21/2004

DFT. | ENG. | ENG.

DATE | DATE | DATE

APPROVED

DATE

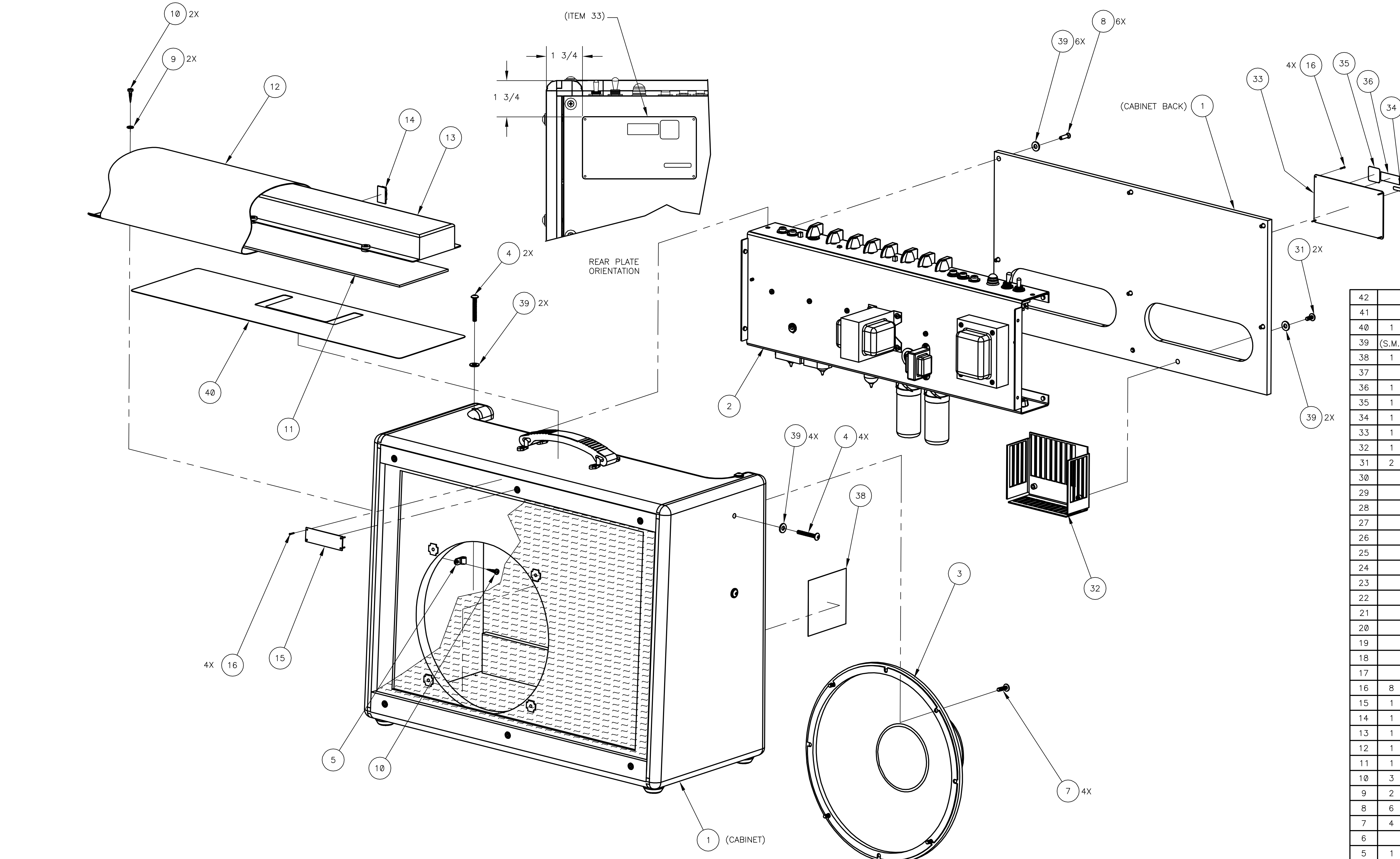
TITLE: CHASSIS ASSEMBLY BLUES DELUXE REISSUE

SHEET	SIZE	DRAWING NUMBER	REV.
1of1	D	0065552000 MASTER	A
SCALE NONE			

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D C B A

REV	EC NUMBER	BY	DATE/ARCHIVE



SERVICE MANUAL DOCUMENT

1/17/2005

ITEM	QTY	DESCRIPTION
42		
41		
40	1	POP BLUES DELUXE REISSUE
39	(S.M.)	WSHR FLAT 1/4x9/16 NI
38	1	LABEL, TUBE, BLUES DELUXE REISSUE
37		
36	1	"LABEL SERIAL ""B"" BLK ON CHRM"
35	1	LABEL CSA C/US
34	1	LABEL VOLTAGE
33	1	PANEL, REAR BLUES DELUXE REISSUE
32	1	COVER TUBE BLS/HR DLX/DVL
31	2	SCRW M 10-32x1/2 THP NI
30		
29		
28		
27		
26		
25		
24		
23		
22		
21		
20		
19		
18		
17		
16	8	PIN ESCUTCHEON #18x3/8 NI
15	1	NAMEPLATE TWEED SERIES
14	1	CLAMP CABLE NYL ADHESIVE
13	1	REVERB UNIT 4 SPRING 4EB3C1B
12	1	REVERB BAG
11	1	PAD CARDBOARD REVERB 12FN86
10	3	SCRW PB 8x3/4 PHP ZI
9	2	WSHR FLAT 6x3/8 ZI
8	6	SCRW M 10-32x3/4 THP NI
7	4	SCRW M 10-32 3/4 THP STL BLX
6		
5	1	CLAMP CABLE NYL SCRW MNT 1/4
4	6	SCREW M 10-32x1-1/2 THP NI
3	1	SPKR 12" 8ohm 50W (099-4812-002)
2	1	CHASSIS ASSEMBLY BLUES DELUXE REISSUE
1	1	CABINET ASSEMBLY BLUES DELUXE

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FENDER MUSICAL INSTRUMENTS CORP.
CORONA, CALIFORNIA U.S.A.

DATE 10/29/2004

DFT.	ENG.	ENG.
DATE	DATE	DATE

APPROVED

DATE

TITLE
END ITEM ASSEMBLY
BLUES DELUXE REISSUE

SHEET	SIZE	DRAWING NUMBER	REV.
1of1	D	2232200000 MASTER	A
SCALE NONE			